What is claimed is:

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計 [] 20 1. A melt processable fluorothermoplastic composition comprising a major amount of a first semi-crystalline fluorinated copolymer and a minor amount of a second fluoropolymer effective to reduce melt defects in the composition, each fluoropolymer being selected from:

- (a) a semi-crystalline perfluorinated copolymer;
- (b) a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer; (c) a fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and optionally at least one essentially perfluorinated monomer; and
- (d) an amorphous copolymer of tetrafluoroethylene and hexafluoropropylene; wherein when the first fluoropolymer is selected from (a), the second fluoropolymer is a semi-crystalline fluoropolymer selected from (b) and/or (c);

when the first fluoropolymer is selected from (b), the second fluoropolymer is selected from (a), (c), and/or (d); and

when the first fluoropolymer is a copolymer selected from (c), the second fluoropolymer is selected from (a), (b), and/or (d).

- 2. The composition of claim 1 wherein the first fluorinated copolymer comprises a semicrystalline perfluorinated copolymer.
- 3. The composition of claim 2 wherein the first fluorinated copolymer comprises a copolymer of TFE with HFP and/or a PAVE.
- 4. The composition of claim 3 wherein the level of HFP is from about 10 to about 20% by weight.
 - 5. The composition of claim 3 wherein the level of PAVE is from about 2 to about 10% by weight.
- The composition of claim 2 wherein the second fluoropolymer comprises a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer, and/or a fluoropolymer derived from interpolymerized units of at least one

- The composition of claim 6 wherein the perfluorinated monomer comprises TFE and/or
 HFP and the non-fluorinated hydrogen-containing monomer comprises ethylene and/or propylene.
 - 8. The composition of claim 7 wherein the level of non-fluorinated hydrogen-containing monomer is about 10% by weight or greater.
 - 9. The composition of claim 6 wherein the second fluoropolymer is derived from interpolymerized units of TFE and ethylene, and optionally HFP, a PAVE, and/or PFBE.
 - 10. The composition of claim 6 wherein the second fluoropolymer is derived from interpolymerized units of TFE and propylene.

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- 11. The composition of claim 3 wherein the second copolymer is derived from interpolymerized units of TFE and ethylene, and optionally HFP, a PAVE, and/or PFBE.
- 12. The composition of claim 1 wherein the first fluorinated copolymer comprises a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer.
- The composition of claim 12 wherein the first fluoropolymer is derived from interpolymerized units of TFE and ethylene, and optionally HFP, PPVE-1, and/or PFBE.
- 14. The composition of claim 12 wherein the second fluoropolymer comprises a semi-crystalline perfluorinated copolymer; and/or a fluoropolymer defived from interpolymerized units of at least one partially-fluorinated
- monomer, and optionally at least one essentially perfluorinated monomer.

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- The composition of claim 1 wherein the first fluorinated copolymer comprises a
 fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and at least one essentially perfluorinated monomer.
 - 17. The composition of claim 16 wherein the partially fluorinated monomer comprises VF2 and the essentially perfluorinated monomer comprises TFE, HFP, and/or a PAVE.
 - 18. The composition of claim 16 wherein the first fluorinated copolymer comprises interpolymerized units of VF2, TFE, and HFP/and optionally a PAVE.
 - 19. The composition of claim 17 wherein the amount of VF2 comprises from about 5 to about 40% by weight.
 - 20. The composition of claim 17 wherein the amount of VF2 comprises from about 5 to about 20% by weight.
 - 21. The composition of claim 16 wherein the second fluoropolymer comprises a semi-crystalline perfluorinated copolymer; and/or a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and/at least one non-fluorinated hydrogen-containing monomer.
 - The composition of claim 1 wherein the first fluoropolymer comprises interpolymerized units of TFE, HFP, and from about 5 to about 20% by weight of VF2, and the second copolymer comprises interpolymerized units of ethylene and/or propylene, and TFE and/or HFP.
 - 23. The composition of claim 1 wherein the minor fluoropolymer further comprises an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated;

and/or

an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether.

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24. A melt processable fluorothermoplastic composition comprising a major amount of a semi-crystalline fluorinated copolymer and a minor amount of a fluoropolymer effective to reduce melt defects in the composition, the second fluoropolymer being selected from:

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(a) an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated; and/or

- (b) an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer, and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether.
- 25. The composition of claim 24 wherein the minor fluoropolymer comprises at least about 5 mol% of an hydrogen containing comonomer.
- 26. . The composition of claim 24 wherein the minor fluoropolymer comprises a perfluoro (alkoxy vinyl) ether wherein the alkoxy group contains 2 to 6 carbon atoms.

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The composition of claim 24/wherein the minor fluoropolymer comprises a perfluoro (alkyl vinyl) ether wherein the alkyl group contains 1 to 5 carbon atoms.

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The composition of claim 24 wherein the minor fluoropolymer comprises a hydrogen 28. containing comonomer selected from vinylidene fluoride, trifluoroethylene, ethylene, propylene, and combinations thereof.

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29. An article comprising the composition of claim 1.

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The composition of claim 1 in the form of a container, film, hose, tubing, or wire coating.

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- 31. A method of improving extrusion properties in an extrudate comprising
- (a) blending a major amount of a first semi-crystalline fluoropolymer and a minor amount of a second fluoropolymer effective to improve extrusion properties in the composition, and
- (b) melt processing the blend to form the extrudate, wherein each fluoropolymer is selected from class:
 - (i) a semi-crystalline perfluorinated copolymer;
 - (ii) a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer;
 - (iii) a fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and optionally at least one essentially perfluorinated monomer;
 - (iv) an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated, and/or an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer, and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether; and
 - (v) an amorphous copolymer of tetrafluoroethylene and hexafluoropropylene;

wherein when the first fluoropolymer is selected from (i), the second fluoropolymer is a fluoropolymer selected from at least one material of class (ii), a semi-crystalline material of class (iii), and/or a material from class (iv);

when the first fluoropolymer is selected from (ii), the second fluoropolymer is selected from (i), (iii), (iv) and/or (v); and

when the first fluoropolymer is a copolymer selected from (iii), the second fluoropolymer is selected from (i), (ii), (iv) and/or (v).

32. The method of claim 31 wherein the first fluorinated copolymer comprises a semicrystalline perfluorinated copolymer.

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- 33. The method of claim 32 wherein the second fluoropolymer comprises a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer;
- a semicrystalline fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and optionally at least one essentially perfluorinated monomer; and/or

an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated, and/or an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer, and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether.

- 34. The method of claim 31 wherein the first fluorinated copolymer comprises a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer.
- 35. The method of claim 34 wherein the second fluoropolymer comprises a semi-crystalline perfluorinated copolymer; and/or a fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and at least one essentially perfluorinated monomer.
- 36. The method of claim 34 wherein the second fluoropolymer comprises an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated, and/or an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer, and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether.
 - 37. The method of claim 31 wherein the first fluorinated copolymer comprises a fluoropolymer derived from interpolymerized units of at least one partially-fluorinated monomer, and at least one essentially perfluorinated monomer.

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- 38. The method of claim 37 wherein the second fluoropolymer comprises a semi-crystalline perfluorinated copolymer; a fluoropolymer derived from interpolymerized units of at least one essentially perfluorinated monomer and at least one non-fluorinated hydrogen-containing monomer; and/or an amorphous fluorinated copolymer derived from interpolymerized units of a perfluoro (alkoxy vinyl) ether and a comonomer which may be partially or fully fluorinated, and/or an amorphous fluorinated copolymer derived from interpolymerized units of at least 3 mole percent (mol%) of an hydrogen containing comonomer, and a perfluoro (alkoxy vinyl) ether and/or a perfluoro (alkyl vinyl) ether.
- 39. The method of claim 31 wherein the improved extrusion property is selected from reduced melt defects, reduced extruder torque, reduced extrusion pressure, improved surface properties, and combinations thereof.
- 40. The method of claim 1 wherein the minor amount of second fluoropolymer comprises less than about 1 part by weight of the blend.